

What the invention claimed is:

1. A printing module detachably mounted inside the top cover of a barcode printer and adapted to print a barcode on a sheet member, the printing module comprising:

5 an output unit adapted to print a barcode on a sheet member, said output unit comprising a relatively higher first mounting face and a relatively lower second mounting face disposed at a top side thereof, and a connector disposed at said second mounting face;

 a bottom panel affixed to said second mounting face of said
10 output unit;

 a locating plate affixed to said first mounting face of said output unit; and

 a holder frame coupled to said locating plate and adapted to secure the printing module to the inside of the top cover of said
15 barcode printer.

2. The printing module as claimed in claim 1, wherein said output unit is a carbon printing head.

3. The printing module as claimed in claim 1, wherein said output unit is an ink printing head.

20 4. The printing module as claimed in claim 1, wherein said output unit has a plurality of mounting holes disposed at said first mounting face and said second mounting face for the mounting of said locating plate and said holder frame.

5. The printing module as claimed in claim 1, wherein said connector of said output unit is a USB (Universal Serial Bus) connector.

6. The printing module as claimed in claim 1, wherein said
5 bottom panel comprises an elongated base, a retaining portion
extended along one long side of said elongated base and smoothly
curved in transverse direction and hooked on a bottom side of said
output unit, two angled mounting flanges bilaterally extended from
an opposite long side of said elongated base and respectively
10 covered on said second mounting face of said output unit at two
sides of said connector of said output unit, and at least one
mounting hole disposed at each of said angled mounting flanges
and respectively fastened to said second mounting face of said
output unit by fastening means.

15 7. The printing module as claimed in claim 6, wherein said
bottom panel further comprises an opening defined between said
angled mounting flanges for accommodating said connector of said
output unit.

8. The printing module as claimed in claim 1, wherein said
20 locating plate comprises an angled side flange hooked on one long
side of said output unit over said first mounting face, a plurality of
mounting holes respectively connected to said first mounting face
of said output unit by fastening means, and a top stub rod for the

mounting of a spring member to support a reinforcing plate above said holder frame.

9. The printing module as claimed in claim 8, wherein said locating plate has an opening corresponding to the opening of said bottom panel for accommodating said connector of said output unit.

10. The printing module as claimed in claim 8, wherein said locating plate has coupling means symmetrically disposed at two distal ends thereof for the coupling of said holder frame.

11. The printing module as claimed in claim 1, wherein said holder frame comprises a flat elongated holder base, two extension arms respectively formed integral with two distal ends of said holder base, two first springy hooks respectively outwardly extended from said extension arms and adapted to secure said holder frame to the inside of the top cover of said barcode printer, two second springy hooks respectively inwardly extended from said extension arms and respectively hooked on two distal ends of said locating plate, a top space defined between said extension arms, a plurality of mounting holes formed in said holder base within said top space, a plurality of male locating means upwardly extended from a top surface of said holder base, and a side opening formed in one long side of said holder base on the middle.

12. The printing module as claimed in claim 11, further comprising a reinforcing plate set in the top space between the two

extension arms of said holder frame, said reinforcing plate comprising a plurality of mounting holes respectively connected to the mounting holes of said holder frame by fastening means, a plurality of female locating means respectively coupled to the male
5 locating means of said holder frame, and a bottom stub rod downwardly extended from a bottom wall thereof corresponding to the side opening of said holder frame.

13. The printing module as claimed in claim 12, further comprising spring means suspended in the side opening of said
10 holder frame and connected between the bottom stub rod of said reinforcing plate and a part of said locating plate.

14. The printing module as claimed in claim 13, wherein said spring means is a compression spring.

15. The printing module as claimed in claim 13, wherein
15 said spring means is a spring leaf.

16. The printing module as claimed in claim 13, wherein said spring means is an elastomer.

17. The printing module as claimed in claim 1, wherein the top cover of said barcode printer comprises a mounting chamber
20 adapted to accommodate the printing module, two hook holes disposed at two sides of said mounting chamber for the positioning of said holder frame, and a signal line having a USB connector for the connection of the connector of said output unit.